

Abstract

A measuring sensor is described for determining a physical property of a measured gas, especially for determining the oxygen concentration or the pollutant concentration in the exhaust gas of internal combustion engines, which has a sensor element (30) that is exposable
5 to the measured gas which is at least partially coated with a protective layer (26) that protects against harmful components in the measured gas. In order to achieve producing a “contamination protection”, that is cost-effective from a manufacturing technology point of view, particularly against silicon compounds and phosphorus compounds, the protective layer (26) is made of highly active γ - or δ - aluminum oxide (Al_2O_3) having additives of compounds
10 of the alkaline metals group, the alkaline earths group, the IV B subgroup or the lanthanides group.

(Figure 1)